

MODEL MP 2000 CONTINUOUS PROPORTIONING CONTROLLER



Feature

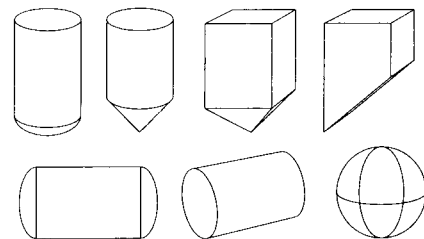
- Programmable relay outputs for orientation, hysteresis, and fail-safe function.
- EEPROM stores all parameter value permanently.
- Volume conversion for volumetric indications.
- Easy-to-read graphic indication and 4-digit LED.
- Build-in test circuit for signal (4-20mA DC).

General Description

The MP2000 is a microprocessor-based controller. The MP provides analog and digital indication of level and/or volumetric contents of tank. Easy selection and input menu with built-in mathematical equations for seven common tank configurations provides for precise volumetric conversion.

Advanced Functions

- Volume Conversion: A display is provided which is proportional to the level of the tank for those seven common tank shapes.



- Non-Linear Profiling: If the tank design does not match one of the seven common tank shapes, it can be programmed as ten separate break-point settings. The tank profile is achieved by entering the level and corresponding volume for the break-points. A maximum of ten break-points (including zero and span point) can be defined in this manner.
- Fail-safe: Fail-safe mode is programmable for alarm outputs. Relay operations are completely changed when you choose the fail-safe mode. The default is without fail-safe mode. See the below table for operating differences.

Power	Liquid level	Fail-safe mode		Without fail-safe mode	
		Operation		Operation	
		Up ON	Down On	Up ON	Down On
ON	Set point or higher				
ON	Set point or lower				
OFF	—				

Specifications

Model	MP2000
Supply Power	100 to 240V AC \pm 10% 50/60Hz
Power Consumption	Approx. 20VA Max.
Output Signal	4 to 20mA DC (Resistive)
Load Resistance	600 Ω Max.
Alarm Output	4 points (2 points \times 2 circuits) 240V 3A AC, 30V 3A DC (Resistive)
Output Power	24V DC
Input Signal	4 to 20mA DC (Current signal) 0 to 22k Ω (Resistance signal)
Operating Temperature	-5 $^{\circ}$ C to 50 $^{\circ}$ C
Maximum Humidity	85% RH
Accuracy	\pm 0.5% F.S.
Material	ABS
Protection	Non Drip-proof

Wiring

